

Title (en)

REMOTELY-OPERATED ROBOT, AND ROBOT SELF POSITION IDENTIFYING METHOD

Title (de)

FERNGESTEUERTER ROBOTER UND ROBOTER-SELBSTPOSITIONSIDENTIFIZIERUNGSVERFAHREN

Title (fr)

ROBOT TELECOMMANDE ET PROCEDE D'IDENTIFICATION AUTOMATIQUE DE LA POSITION DE ROBOT.

Publication

**EP 1510896 A4 20051214 (EN)**

Application

**EP 02730841 A 20020531**

Priority

JP 0205370 W 20020531

Abstract (en)

[origin: EP1510896A1] A remotely controlled robot 1 comprises a unit 2 storing the layout plan of a building, a unit 3 receiving a position remotely designated in the layout plan from a remote location and a unit 4 controlling the travel of the robot to the designated position. A self-position identification method is implemented by a robot with a camera whose shooting direction can be changed. The robot takes in advance a panoramic picture of a room where the robot may travel, generates a reference picture by extracting a plurality of block pictures from the panoramic picture and identifies a room where the robot is located, by applying correlation and DP matching, using both a picture taken in the room where the robot is located and the reference picture. <IMAGE>

IPC 1-7

**G05D 1/02**; **G01C 15/00**; **G01S 5/16**; **G06K 9/64**

IPC 8 full level

**G01C 15/00** (2006.01); **G01S 5/16** (2006.01); **G05D 1/00** (2006.01); **G05D 1/02** (2006.01); **G06K 9/00** (2006.01); **G06K 9/64** (2006.01); **G06T 7/00** (2006.01)

CPC (source: EP KR US)

**G05D 1/0038** (2024.01 - EP US); **G05D 1/02** (2024.01 - KR); **G05D 1/0242** (2024.01 - EP US); **G05D 1/0251** (2024.01 - EP US); **G05D 1/0274** (2024.01 - EP US); **G06T 7/74** (2017.01 - EP US); **G06V 20/10** (2022.01 - EP US); **G05D 1/0229** (2024.01 - EP US); **G05D 1/0272** (2024.01 - EP US); **G06T 2200/32** (2013.01 - EP US); **G06T 2207/20021** (2013.01 - EP US); **G06T 2207/30244** (2013.01 - EP US)

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